

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (ORIGINAL) An inbred cucumber seed designated 8D-5079 wherein a sample of said seed has been deposited under ATCC Accession No. _____.
2. (ORIGINAL) A cucumber plant, or parts thereof, produced by growing the seed of claim 1.
3. (ORIGINAL) Pollen of the plant of claim 2.
4. (ORIGINAL) An ovule or ovules of the plant of claim 2.
5. (ORIGINAL) A cucumber plant, or parts thereof, having all of the physiological and morphological characteristics of the cucumber plant of claim 2.
6. (CANCELED)
7. (PREVIOUSLY PRESENTED) A tissue culture of regenerable cells of a cucumber plant of variety 8D-5079, wherein the tissue regenerates plants having all the morphological and physiological characteristics of cucumber line 8D-5079, representative seeds having been deposited under ATCC number _____.
8. (CURRENTLY AMENDED) The tissue culture according to claim 7, wherein the cells are isolated from a plant part wherein the tissue is from a tissue selected from the group consisting of embryos, ~~protoplasts~~, meristematic cells, ~~callus~~, pollen, leaves, anthers, stems, petioles, roots, root tips, fruits, ~~seeds~~, flowers, cotyledons, and hypocotyls.
9. (PREVIOUSLY PRESENTED) A cucumber plant regenerated from the tissue culture of claim 7, wherein the regenerated plant expresses all the morphological and physiological characteristics of inbred cucumber line 8D-5079, representative seeds having been deposited under ATCC number _____.
10. (ORIGINAL) A method for producing a hybrid cucumber seed comprising crossing a first inbred parent cucumber plant with a second inbred parent cucumber plant and harvesting the resultant hybrid cucumber seed, wherein said first or second parent cucumber plant is the cucumber plant of claim 2.
- 11 - 34. (CANCELLED)

35. (PREVIOUSLY PRESENTED) A method of producing an herbicide resistant cucumber plant comprising transforming the cucumber plant of claim 2 with a transgene that confers herbicide resistance.

36. (PREVIOUSLY PRESENTED) An herbicide resistant cucumber plant produced by the method of claim 35.

37. (PREVIOUSLY PRESENTED) A method of producing an insect resistant cucumber plant comprising transforming the cucumber plant of claim 2 with a transgene that confers insect resistance.

38. (PREVIOUSLY PRESENTED) An insect resistant cucumber plant produced by the method of claim 37.

39. (PREVIOUSLY PRESENTED) A method of producing a disease resistant cucumber plant comprising transforming the cucumber plant of claim 2 with a transgene that confers disease resistance.

40. (PREVIOUSLY PRESENTED) A disease resistant cucumber plant produced by the method of claim 39.

41 - 42. (CANCELED)

43. (NEW) A method of introducing a desired trait into cucumber inbred line 8D-5079 comprising:

(a) crossing the 8D-5079 plants, grown from seed deposited under ATCC Accession No. PTA-_____, with plants of another cucumber plant that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from male sterility, herbicide resistance, insect resistance, disease resistance, bitterness, parthenocarpy, monoeciousness and dioeciousness;

(b) selecting F1 progeny plants that have the desired trait to produce selected F1 progeny plants;

(c) crossing the selected F1 progeny plants with the 8D-5079 plants to produce first backcross progeny plants;

(d) selecting for first backcross progeny plants that have the desired trait and physiological and morphological characteristics of cucumber inbred line 8D-5079 to produce selected first backcross progeny plants; and

(e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of cucumber inbred line 8D-5079 as shown in the Variety Description Information and as determined at a 5% significance level when grown in the same environmental conditions.

44. (NEW) A plant produced by the method of claim 43, wherein the plant has the desired trait and all of the physiological and morphological characteristics of cucumber inbred line 8D-5079 as shown in the Variety Description Information and as determined at a 5% significance level when grown in the same environmental conditions.

45. (NEW) A hybrid cucumber seed designated W83049*8D-5079 having inbred line 8D-5079 as a parental line, representative seed having been deposited under ATCC Accession No. _____ and hybrid W83049*8D-5079 plants, representative seed having been deposited under ATCC Accession No. PTA-_____.

46. (NEW) Protoplast or callus derived from cells isolated from a plant part selected from the group consisting of embryos, meristematic cells, pollen, leaves, anthers, stems, petioles, roots, root tips, fruits, flowers, cotyledons and hypocotyls, wherein the plant part is isolated from a plant of claim 2.